

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/002111

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G11B7/006 G11B7/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	EP 0 373 955 A (TORAY INDUSTRIES) 20 June 1990 (1990-06-20) page 7, lines 7-30	1,2,8 3,7 4-6
Y	EP 1 047 056 A (MITSUBISHI CHEM CORP) 25 October 2000 (2000-10-25) paragraph '0490!	3,7
X	US 2002/167879 A1 (OHNO TAKASHI) 14 November 2002 (2002-11-14) paragraphs '0119! - '0122!	1,8
A	US 5 025 439 A (ISHIZUKI TOMONORI ET AL) 18 June 1991 (1991-06-18) column 3, line 29 - column 6, line 40	1,7,8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

30 September 2004

Date of mailing of the international search report

12/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/039192 A1 (SAGA HIDEKI ET AL) 27 February 2003 (2003-02-27) paragraphs '0036!, '0037! -----	1,7,8

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002111

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0373955	A	20-06-1990	DE 68914806 D1	26-05-1994
			DE 68914806 T2	04-08-1994
			EP 0373955 A1	20-06-1990
			HK 1005326 A1	31-12-1998
			JP 3011200 B2	21-02-2000
			JP 11139000 A	25-05-1999
			JP 2258291 A	19-10-1990
			JP 3048235 B2	05-06-2000
			US 5063097 A	05-11-1991
EP 1047056	A	25-10-2000	AU 5647299 A	27-03-2000
			EP 1047056 A1	25-10-2000
			CN 1286791 T	07-03-2001
			WO 0014735 A1	16-03-2000
			JP 3485040 B2	13-01-2004
			JP 2001056958 A	27-02-2001
			JP 2003019868 A	21-01-2003
			JP 2004030923 A	29-01-2004
			TW 455867 B	21-09-2001
US 2002167879	A1	14-11-2002	EP 1117094 A2	18-07-2001
			JP 2001273638 A	05-10-2001
			US 2001012253 A1	09-08-2001
US 5025439	A	18-06-1991	JP 1232538 A	18-09-1989
			NL 8801910 A	16-06-1989
US 2003039192	A1	27-02-2003	JP 3323782 B2	09-09-2002
			JP 11086291 A	30-03-1999
			US 2002054556 A1	09-05-2002
			US 2001043538 A1	22-11-2001
			US 2004081052 A1	29-04-2004
			DE 69814773 D1	26-06-2003
			DE 69814773 T2	18-03-2004
			EP 1304685 A2	23-04-2003
			EP 0902424 A1	17-03-1999
			US 6236635 B1	22-05-2001